

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-12. (Cancelled)

13. (Currently Amended) A method of controlling a gap between at least one fixed plate and an electrostatically movable plate in a MEMs device, comprising:

time modulating a control signal to a controlled current output that is variable voltage compliant to represent a desired gap between the fixed plate and the electrostatically movable plate;

selectively routing a charge which is a function of the controlled current output and the modulated time to array elements each including control circuitry and one of [[the]] a plurality of electro-mechanical devices; and

displacing the electrostatically movable plate in response to the controlled current output.

14. (Previously Presented) The method as defined in claim 13, wherein selectively routing a charge comprises selectively mirroring a reference current onto the controlled current output coupled to the MEMs device on the basis of the time modulated control signal.

15. (Previously Presented) The method of claim 14, wherein selectively mirroring the reference current selectively mirrors the reference current onto a plurality of controlled current outputs, each of the plurality of controlled current outputs being coupled to one of a plurality of MEMs devices, and

wherein displacing the electrostatically movable plate displaces an electrostatically movable plate in each of the plurality of MEMs devices in response to a corresponding controlled current output.

16. (Previously Presented) The method of claim 14, further comprising: generating the reference current.

17. (Original) The method of claim 16, further comprising:

adjusting the reference current to represent the desired gap between the fixed plate and the electrostatically movable plate.

18. (Previously Presented) The method of claim 14, wherein selectively mirroring the reference current onto the controlled current output generates the variable voltage compliant controlled current output.

19. (Original) The method of claim 13, further comprising selectively setting a predetermined charge in the MEMs device before displacing the electrostatically movable plate in response to the controlled current output.

20-33. (Cancelled)

34. (Previously Presented) An apparatus for controlling a gap between at least one fixed plate and an electrostatically movable plate in a MEMs device, comprising:

means for selectively setting a reference current onto a controlled current output that is variable voltage compliant, the controlled current output coupled to the MEMs device on the basis of the time modulated control signal;

means for time modulating a control signal to represent a desired gap between the fixed plate and the electrostatically movable plate by a charge which is a function of the controlled current output and the modulated time; and

means for displacing the electrostatically movable plate in response to the controlled current output.